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# FGF-8c

Catalog # PVGS1275

## Product Information

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| **Primary Accession** | P37237 |
| **Species** | Mouse |
| **Sequence** | Gln23-Arg268, expressed with an N-terminal Met |
| **Purity** | > 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by HPLC |
| **Endotoxin Level** | |
| **Expression System** | E. coli |
| **Formulation** | Lyophilized after extensive dialysis against PBS. |
| **Reconstitution** | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in dd$H_2O$ up to 100 □g/ml. |
| **Storage & Stability** | Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles. |

## Additional Information

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| **Gene ID** | 14179 |
| **Other Names** | Fibroblast growth factor 8, FGF-8, Androgen-induced growth factor, AIGF, Heparin-binding growth factor 8, HBGF-8, Fgf8, Aigf |
| **Target Background** | Fibroblast Growth Factor 8c (FGF-8c) is a cytokine belonging to the heparin-binding FGF family, which has at least 23 members. In different species, e.g. human and mouse, FGF-8 has 8 different isoforms, from FGF-8a to FGF-8h. Different FGF-8 isoforms have different affinities to the receptors, thus conduct different signaling cascade pathways. FGF-8 has very widespread expression pattern during embryonic development, and is an organizer and inducer for gastrulation, somitogenesis, morphogenesis, and limb induction. However, FGF-8 is also a potential oncogene: in normal adult cells, FGF-8 has very low expression; on the other hand, FGF-8 is highly expressed in cancer cells of breast, prostate, and ovarian tumors. FGF-8 promotes tumor angiogenesis by increasing neovascularization, and induces osteoblastic differentiation. |

## Protein Information

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| **Name** | Fgf8 |
| **Synonyms** | Aigf |
| **Function** | Plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. Required for normal brain, eye, ear and limb development during embryogenesis. Required for normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Plays a role in neurite outgrowth in hippocampal cells (By similarity). Cooperates with Wnt-1 in mouse mammary tumor virus-induced murine mammary tumorigenesis (PubMed:7884899). |
| **Cellular Location** | Secreted. |
| **Tissue Location** | Absent in normal mammary glands and detected only in adult testis and ovary and in midgestational embryos |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.